Dock No.: 263361US0PCT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLI	CATION OF:		GROUP: 1623	
Andrea CAPC	OCCHI			
SERIAL NO: 10/516,945			EXAMINER: M.C. HENRY	
FILED:	August 23	3, 2005		
FOR:	A PROCESS FOR THE PREPARATION OF PIROXICAM: B-CYCLODEXTRIN INCLUSION COMPOUNDS			
	DECI	LARATION UNDE	ER 37 C.F.R. § 1.132	
	NER FOR PATE IA, VIRGINIA 22			
Sir:				
Now c	omes SCAPPAT	ncci Giusei	PRE	who
deposes and s	tates that:			
1. I am	n a graduate of	BIOLOGICAL S	CIENCES	and
received my _			degree in the year	1976
2. I ha	ve been employed	1 by INTERNATION	VAL CHEMICAL IN	DUSTRY
SpA (10	1)	for31	years as a RRD	DIRECTOL
			ANUFACTURING	
3. The	following experi	ments were carried	l out by me or under my	direct supervision
and control.				
4. About 50 litres of water was poured into a tank and heated up to a temperature of 70-				
73°C.				
5. 8.6	kg (7.57 moles) o	of β-cyclodextrin, 1	kg (3.02 moles) of pirox	icam and 1 kg of 28%
ammonium hydroxide were added in succession, and the mixture stirred for 30 min. The hot				
solution was poured through the tap on the temperature-controlled shelves of a freeze-dryer				
pre-cooled at	-			-
pre coolea at 20 c.				

6. By applying said temperature to the shelves, the solution reaches the freezing temperature of  $-10^{\circ}$ C in 120 min, and hence at a cooling rate of about  $0.7^{\circ}$ C/min, so lower than  $1^{\circ}$ C/min.

7. Under these conditions of cooling, it has been observed that, when the solution reaches

the temperature of 50-55°C, β-cyclodextrin begins to re-crystallize causing de-complexation of

piroxicam.

8. Therefore pre-cooling the shelves of the freeze-dryer to a temperature of  $-20^{\circ}$  C is

not sufficient for achieving a cooling rate equal to or higher than 1° C/min, and hence for

obtaining a product characterized by: i) completeness of the inclusion reaction; and ii) complete

amorphization, and wherein piroxicam is present in the zwitter-ionic form.

9. The undersigned petitioner declares further that all statements made herein of his

own knowledge are true and that all statements made on information and belief are believed to

be true and further that these statements were made with the knowledge that willful false

statements and the like so made are punishable by fine or imprisonment, or both, under Section

1001 of Title 18 of the United States Code and that such willful false statements may

jeopardize the validity of this application or any patent issuing thereon.

10. Further deponent saith not.

Sionature

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